

LASER BEAM RECORDING MATERIAL

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- **european:** G11B7/243

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Abstract of JP57022095

PURPOSE: To provide a large capacity and high density laser beam recording material capable of recording at low photoenergy, which is prepared by laminating on a dielectric substrate a primary metallic membrane, which causes solid reaction with a low melting point metal, and a secondary metallic membrane which is composed mainly of a low melting point metal. CONSTITUTION: The primary metallic thin membrane 2, which causes solid reaction to a low melting point metal such as Au, etc., and the secondary metallic thin membrane 3, which is composed mainly of a low melting point metal such as In., etc., are laminated on a dielectric substrate 1 such as a plastic glass, etc. A photobeam 4 is applied onto the surface of the thin membrane to allow solid phase reaction by dispersion between these two metals to take place on a section 5 where temperature is raised by absorption of the photobeam, and recording of information is performed by difference in reflectivities of light before and after the reaction.

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